RDA5807 FM digital radio

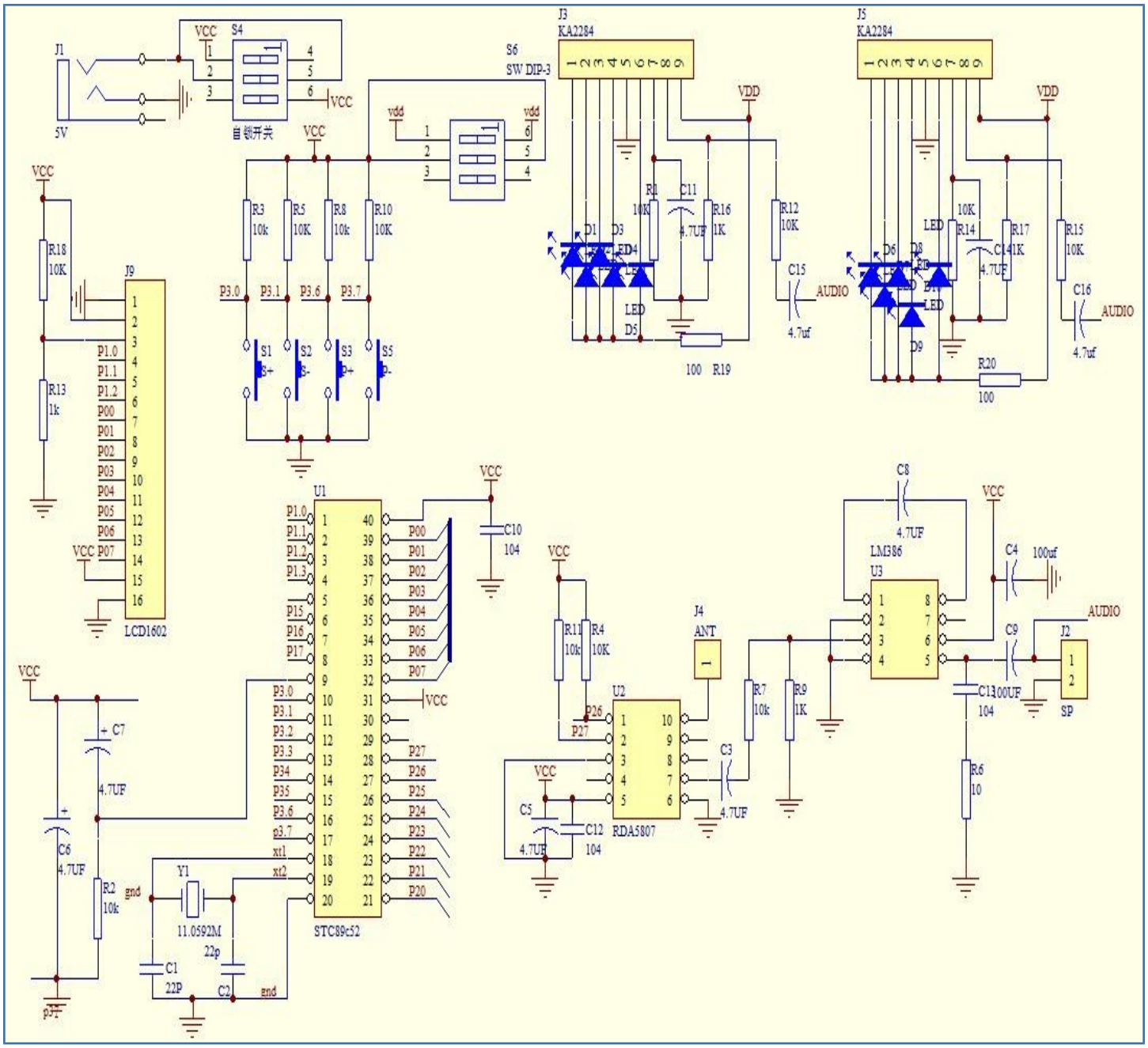
1. Circuit parameters

Working voltage: 4.5V-5.5V DC.

Frequency modulation range: 87MHZ-108MHZ;

Shell size: 9.5cm*6.4CM*5.0CM

2. Circuit diagram

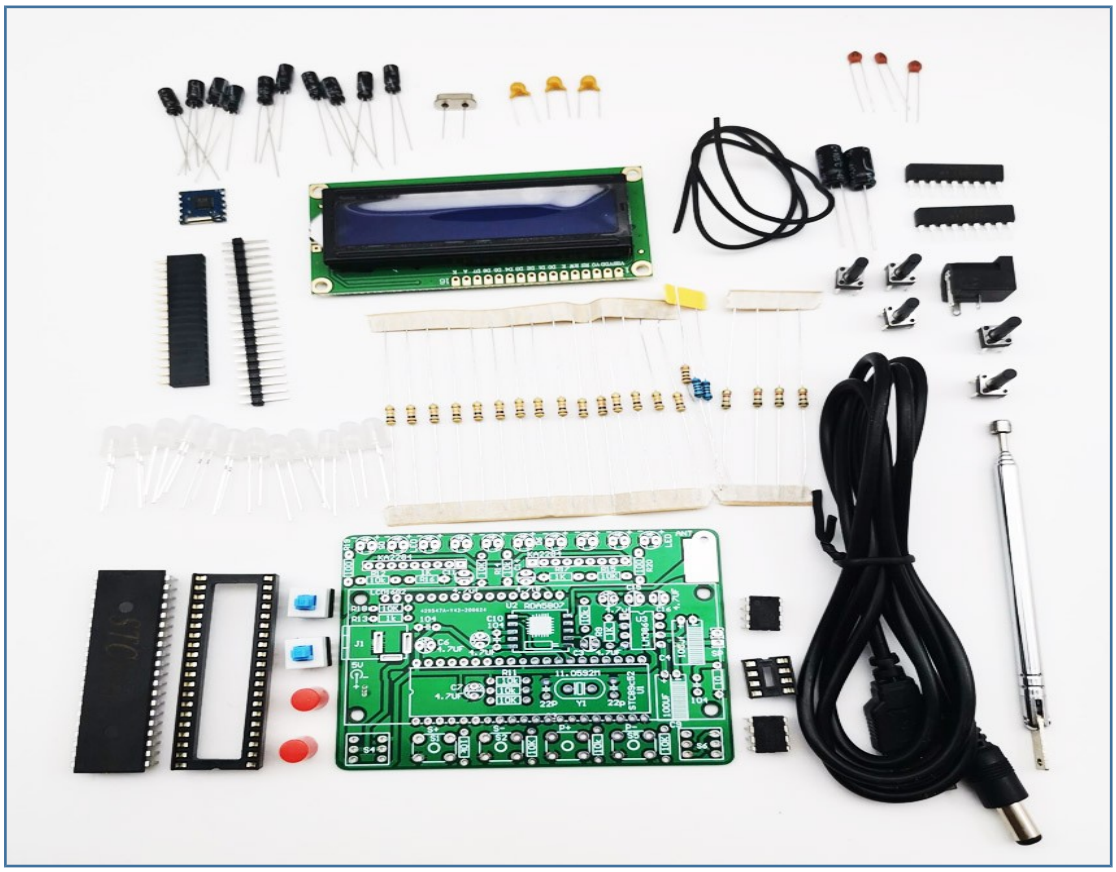


3.Component list

Component name	Quantity	Component name	Quantity
PCB board	1	1K ohm resistor	4
262 small antenna	1	10K resistor	13
DC005 socket	1	100 resistor	2
16P Socket	1	10 resistor	1
11.0592M Crystal oscillator	1	RDA5807 radio module	1
6*6*20 button	4	5MM LED	10
8P IC socket	1	LM386 chip	1
40P IC socket	1	STC89C52 (program burned)	1
8*8 self-locking switch	2	self-locking switch cap	2
104 monolithic capacitors	3	22P ceramic capacitors	2
100UF 25V electrolytic capacitor	2	4.7UF 25V electrolytic Capacitors	9
LCD1602 liquid crystal display	1	horn	1
Acrylic plate (set)	1	M3*8 screws	18
10MM Double Copper Post	5	M3 nuts	18
M3*6 screws	5	M3*10 screws	5

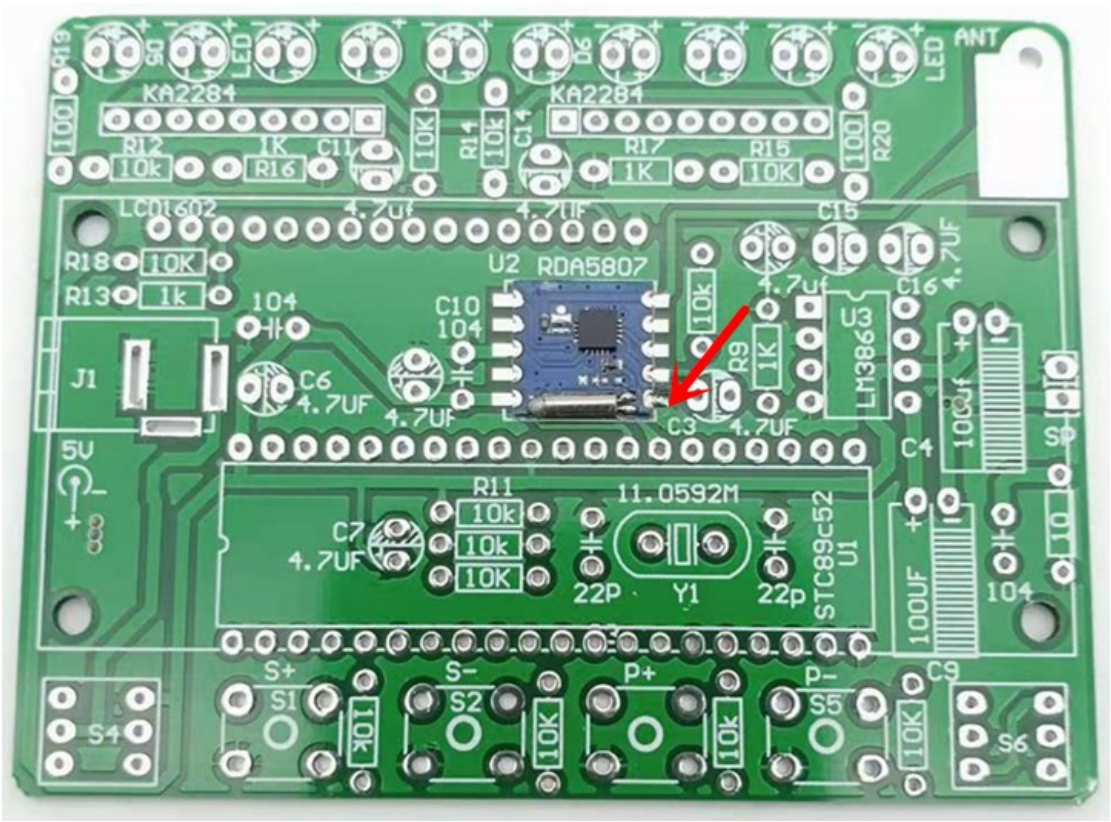
4. Welding step

1. Recognize electronic components and distinguish polarities

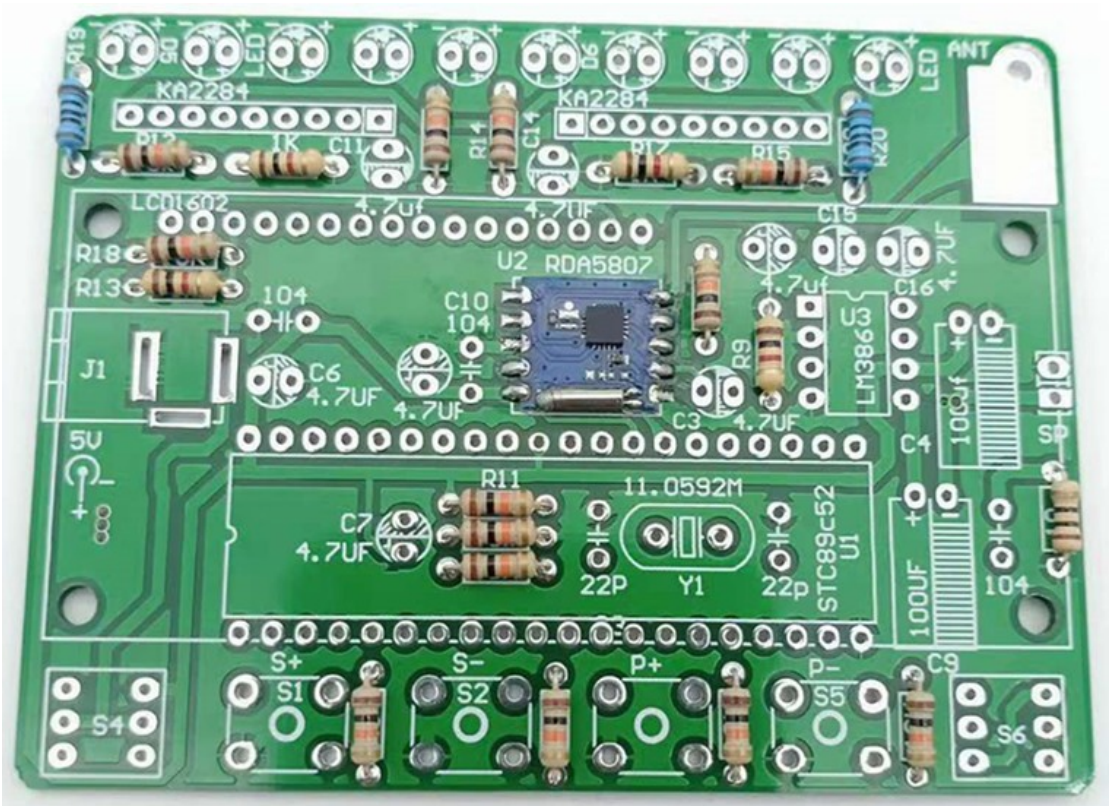


2. Welding RDA5807

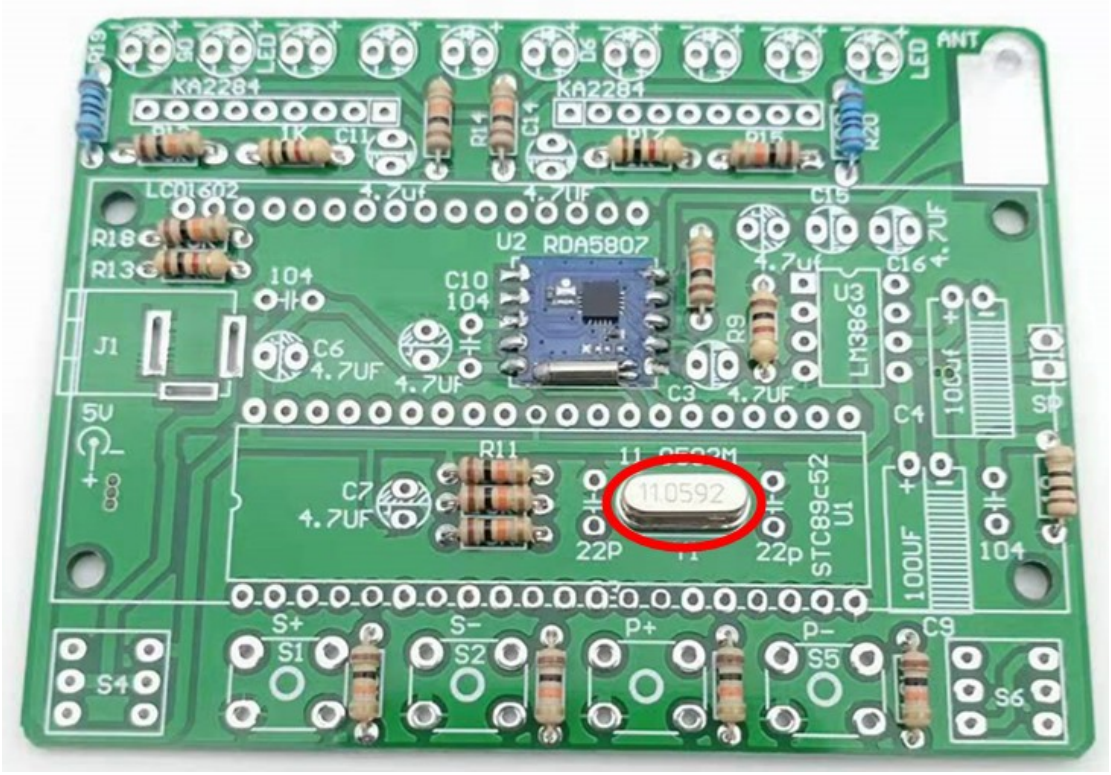
Solder one pin first, fix it, and then solder the other pins to prevent short circuits.



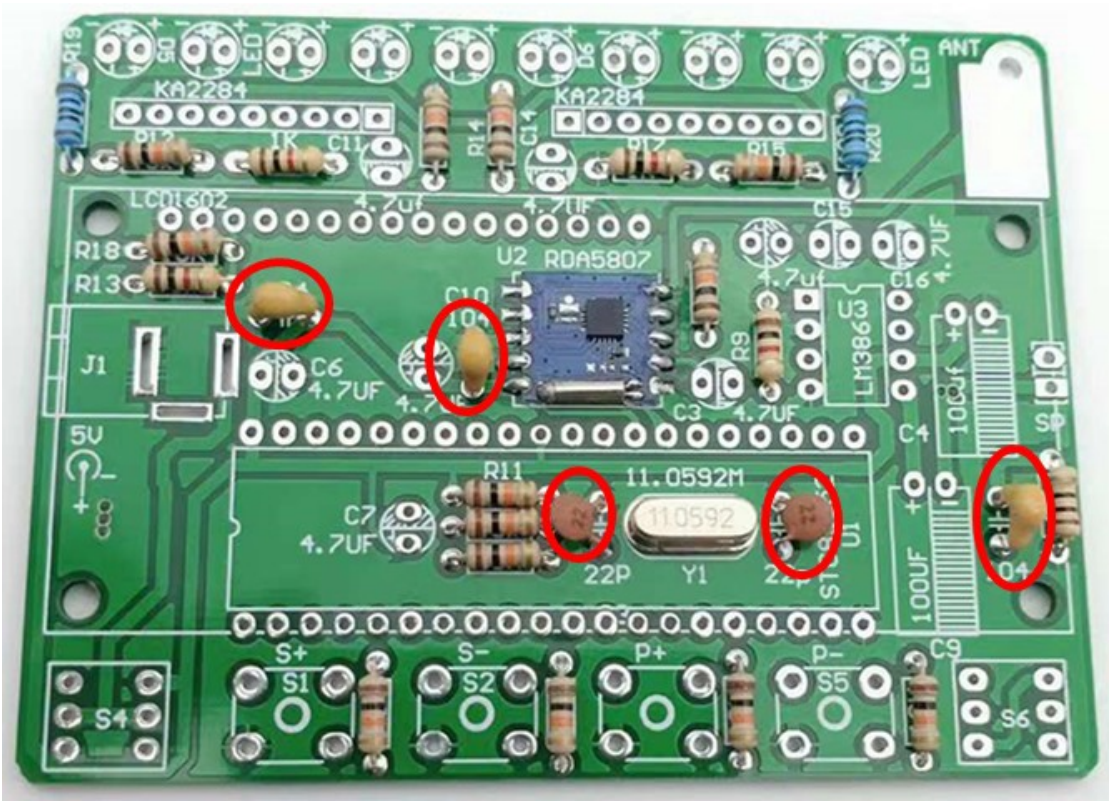
3. Welding resistance



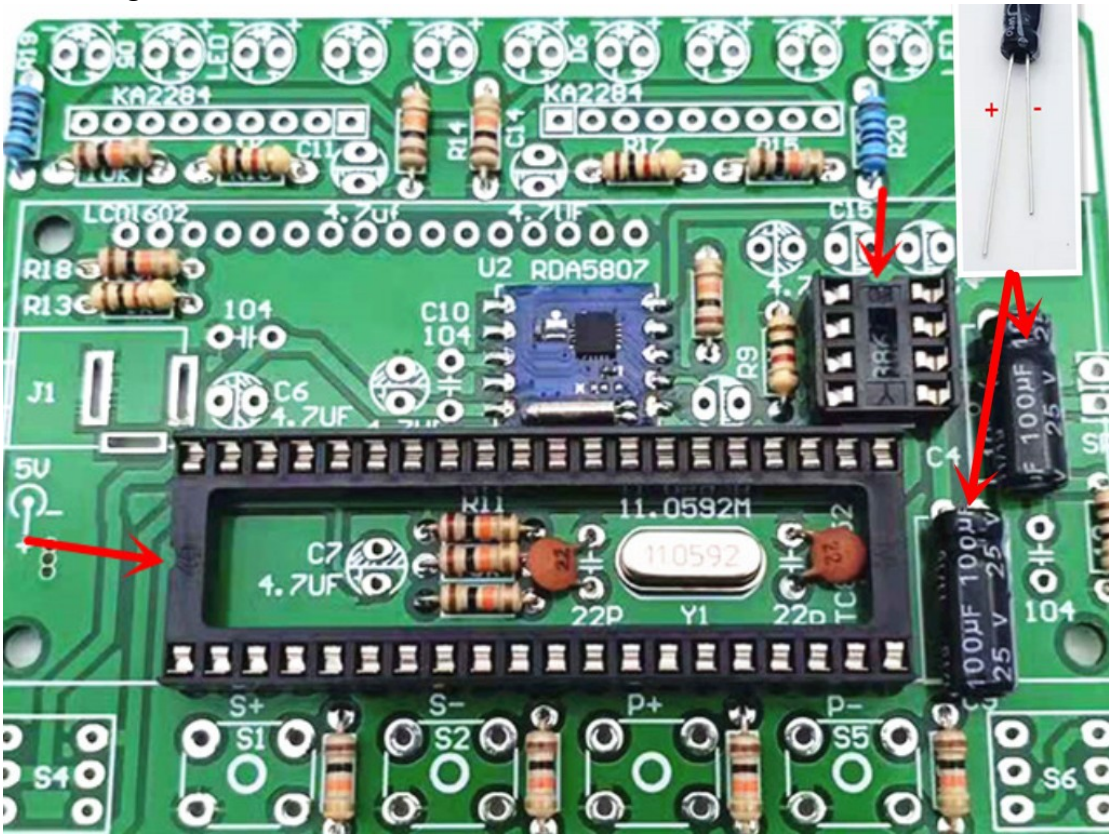
4. Welding 11.0592M Crystal oscillator



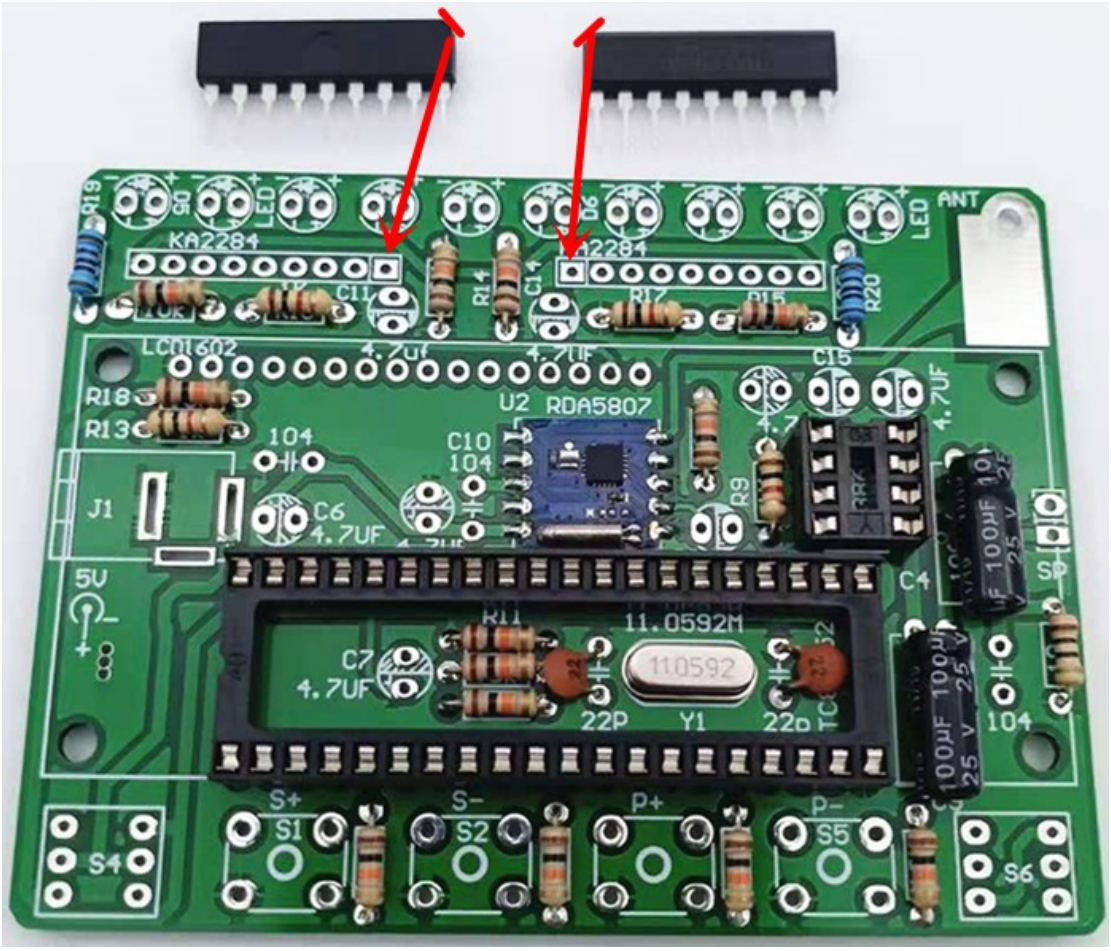
5. Welding 104 monolithic capacitors and 22P ceramic capacitors

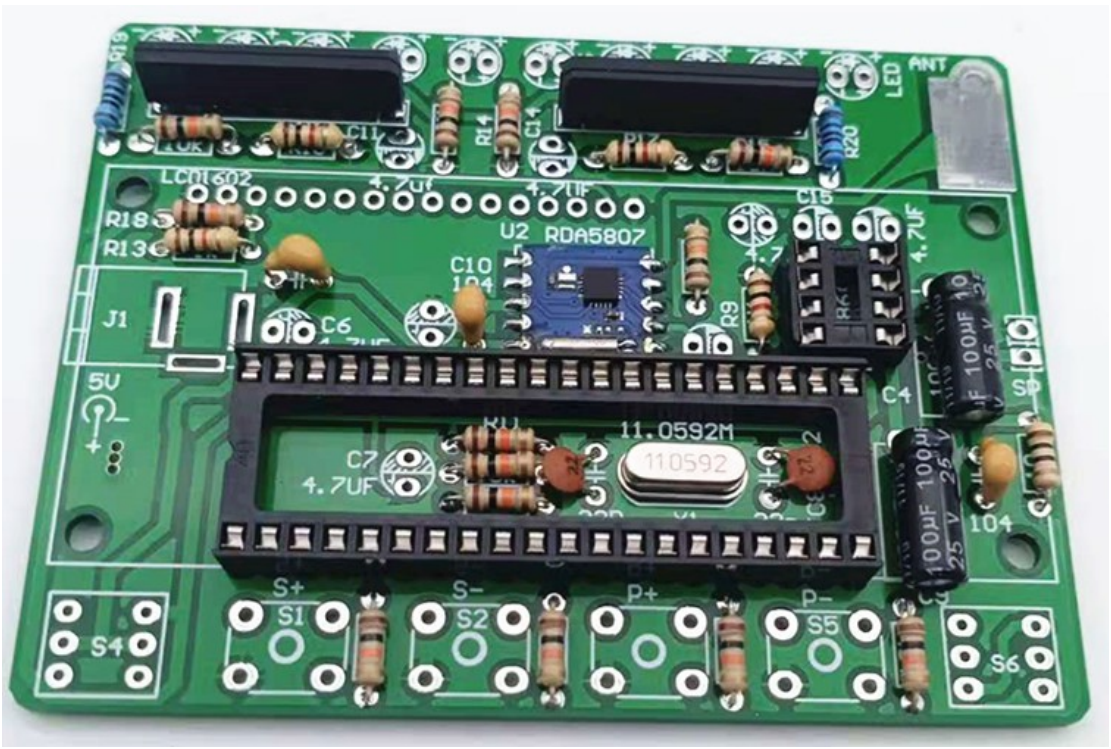


6. Welding 8P IC socket and 40P IC socket

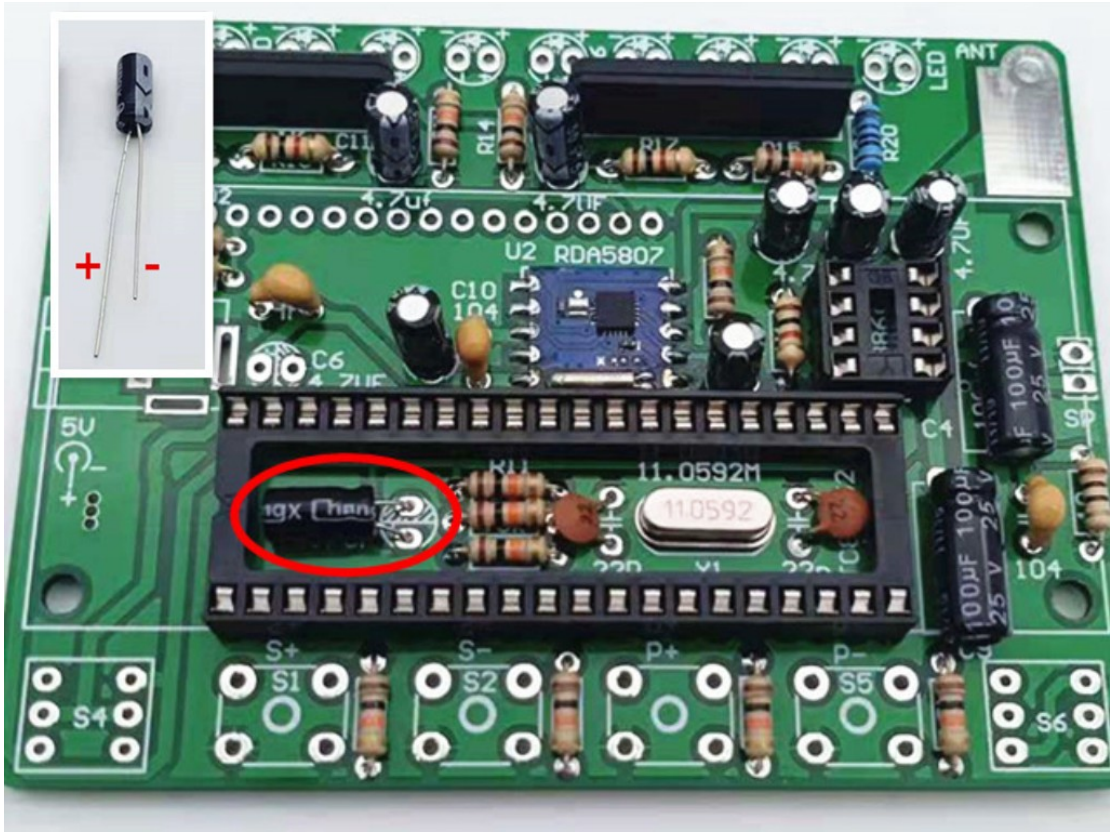


7. Welding KA2284

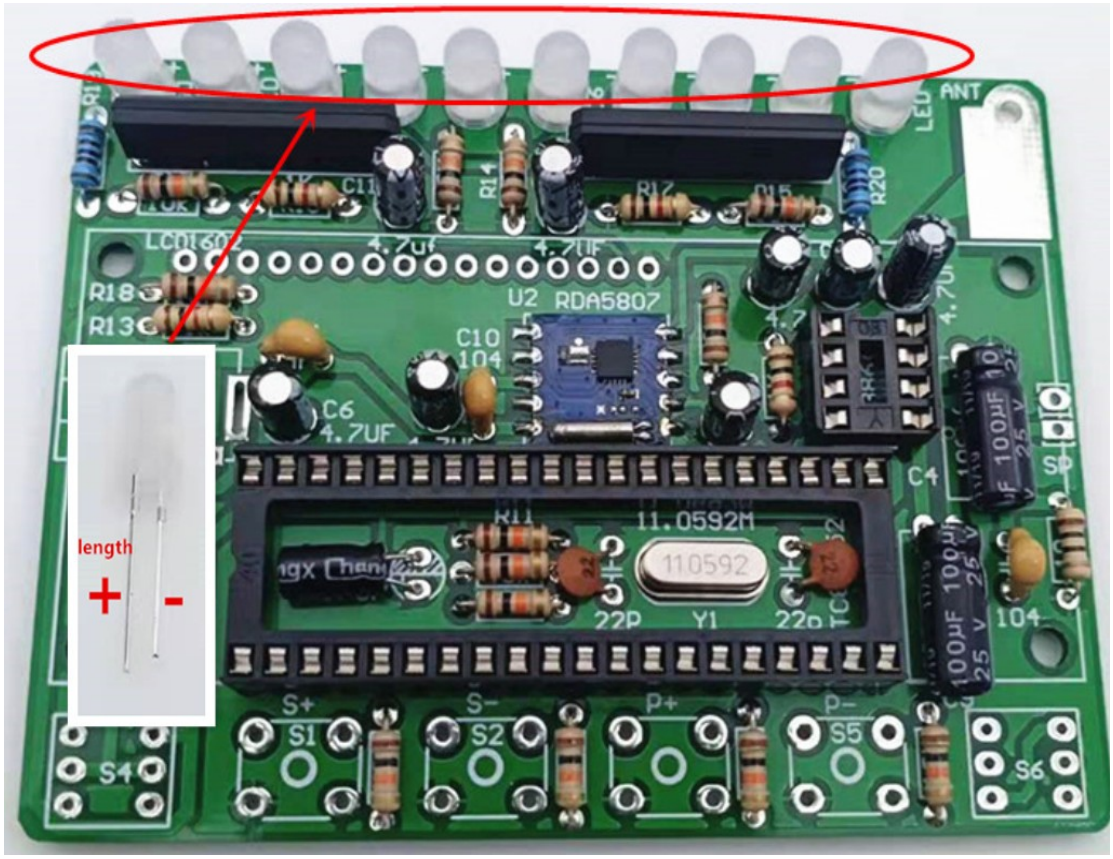




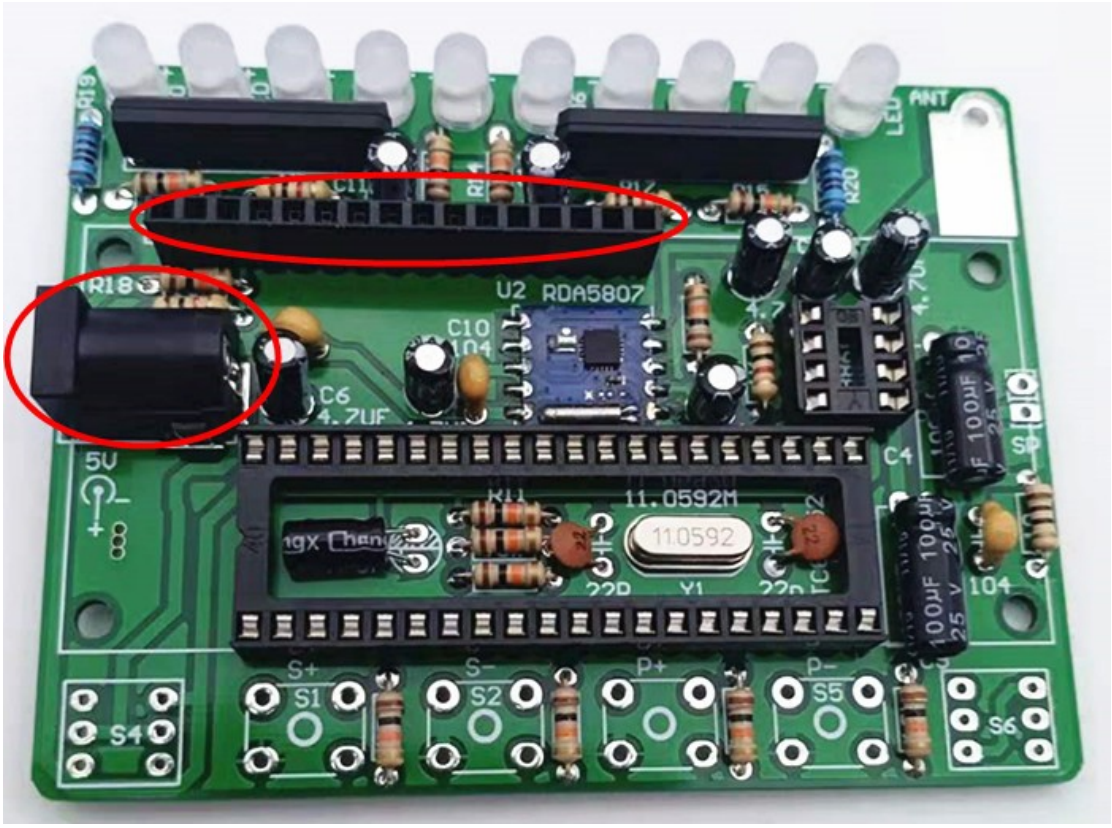
8. Welding 4.7uf



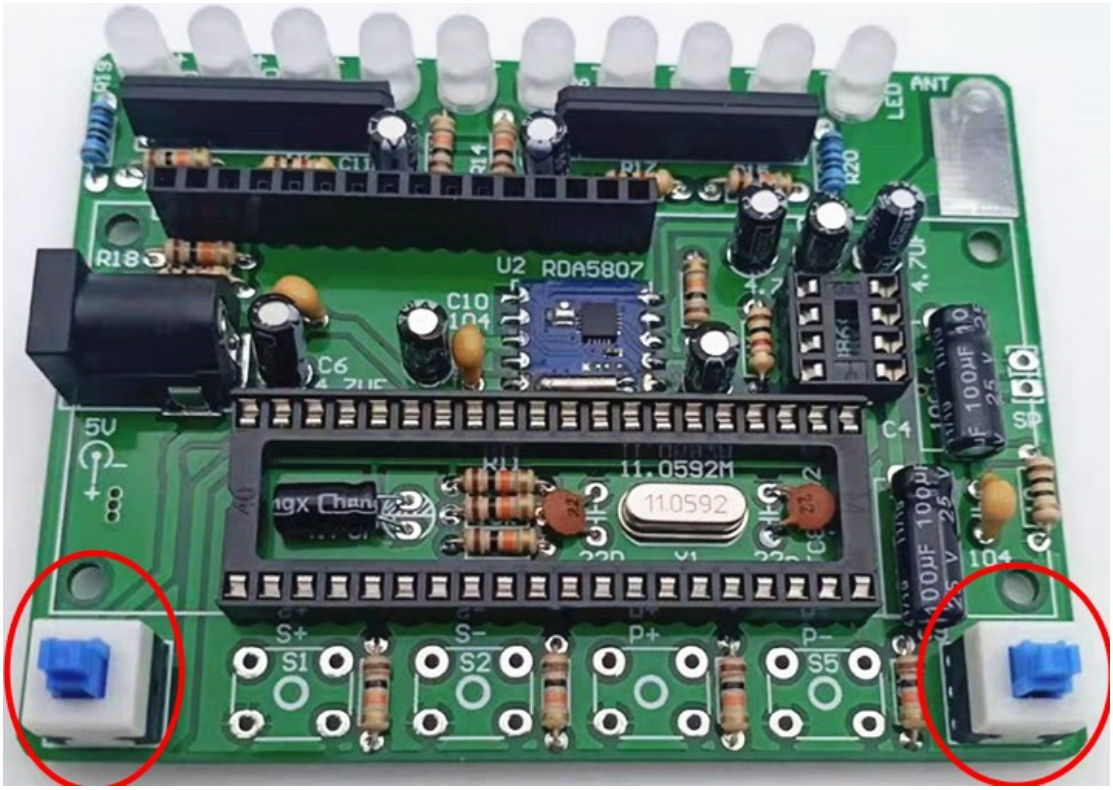
9. Welding 5MM LED

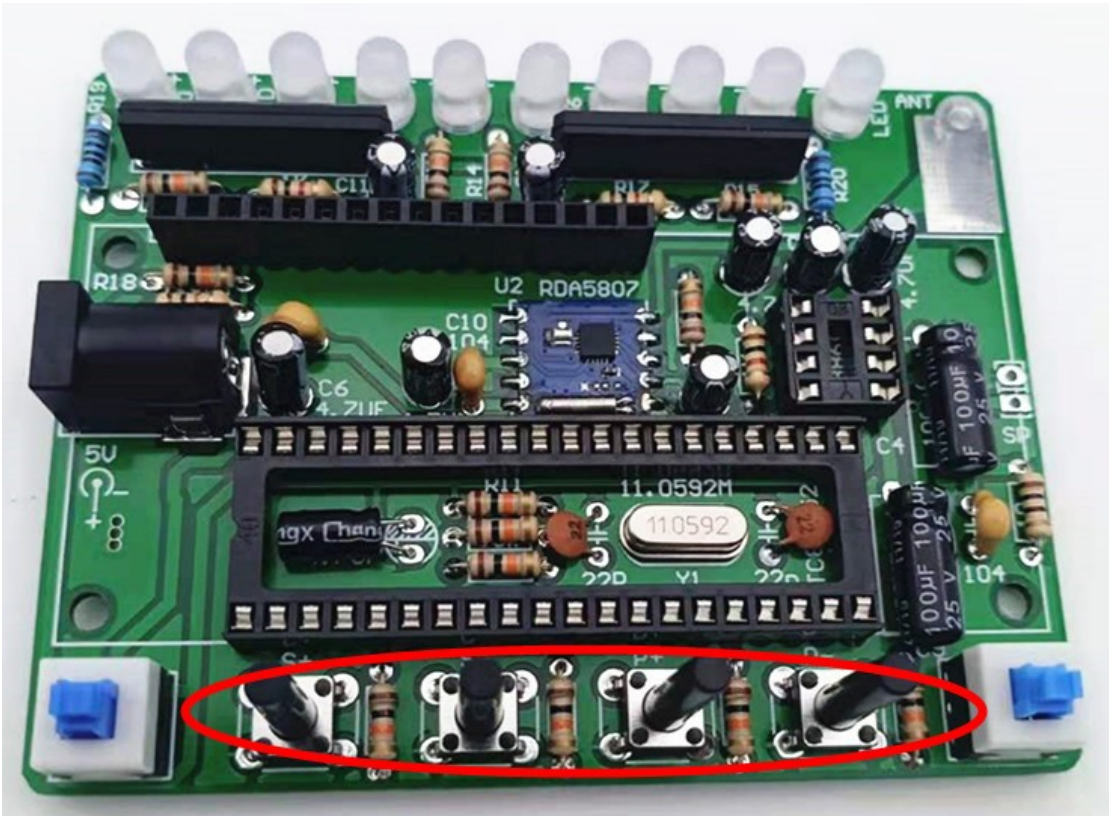


10.Welding Power base and 1602 base

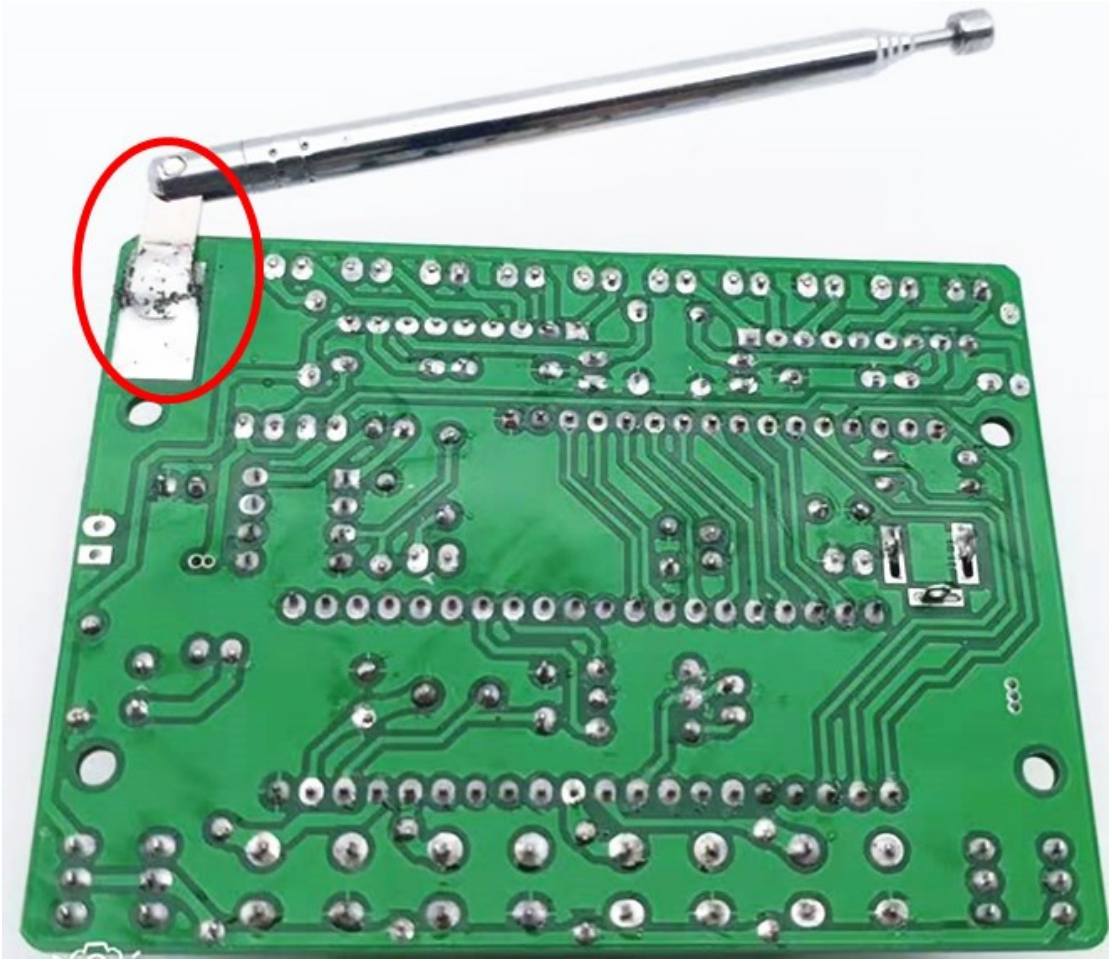


11.Welding button

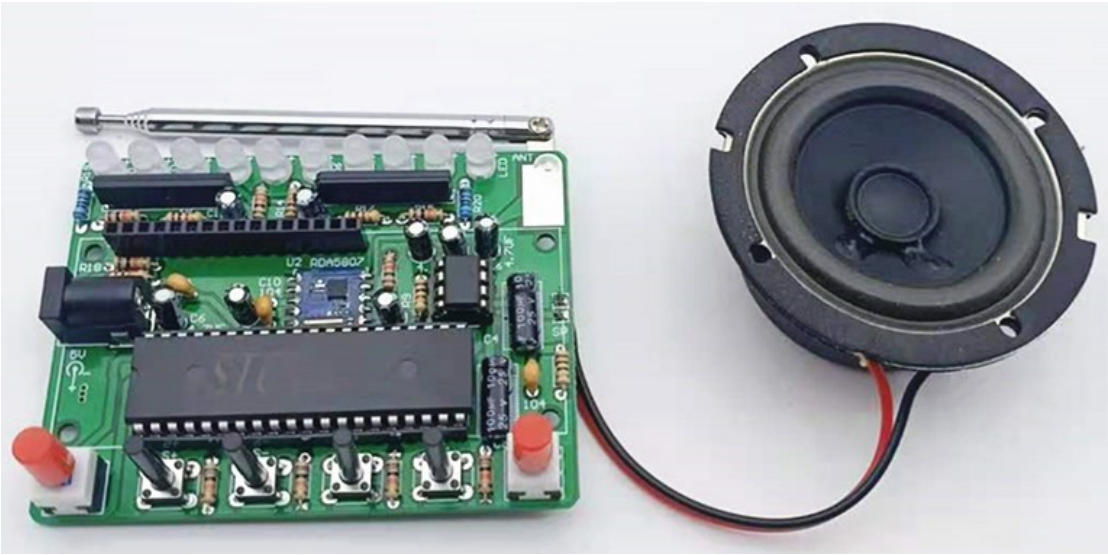


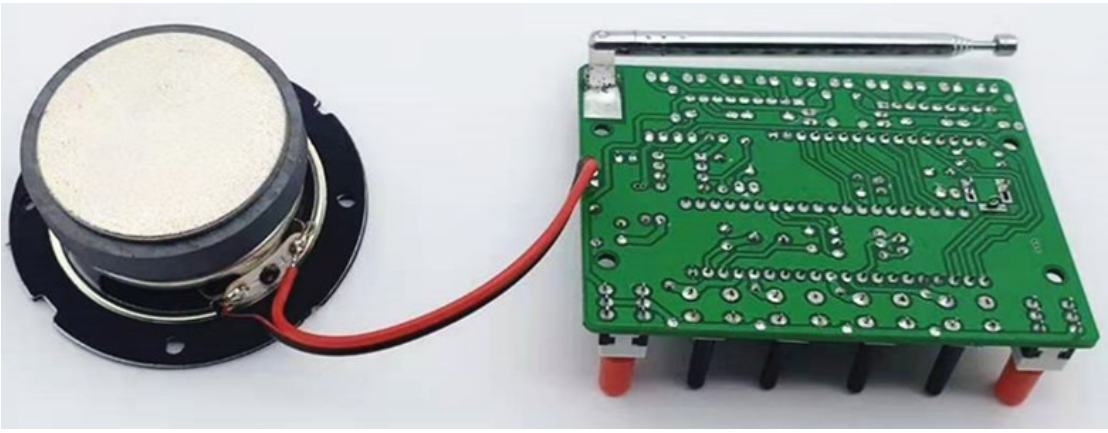


12.Welding 262 small antenna



13. Welding horn





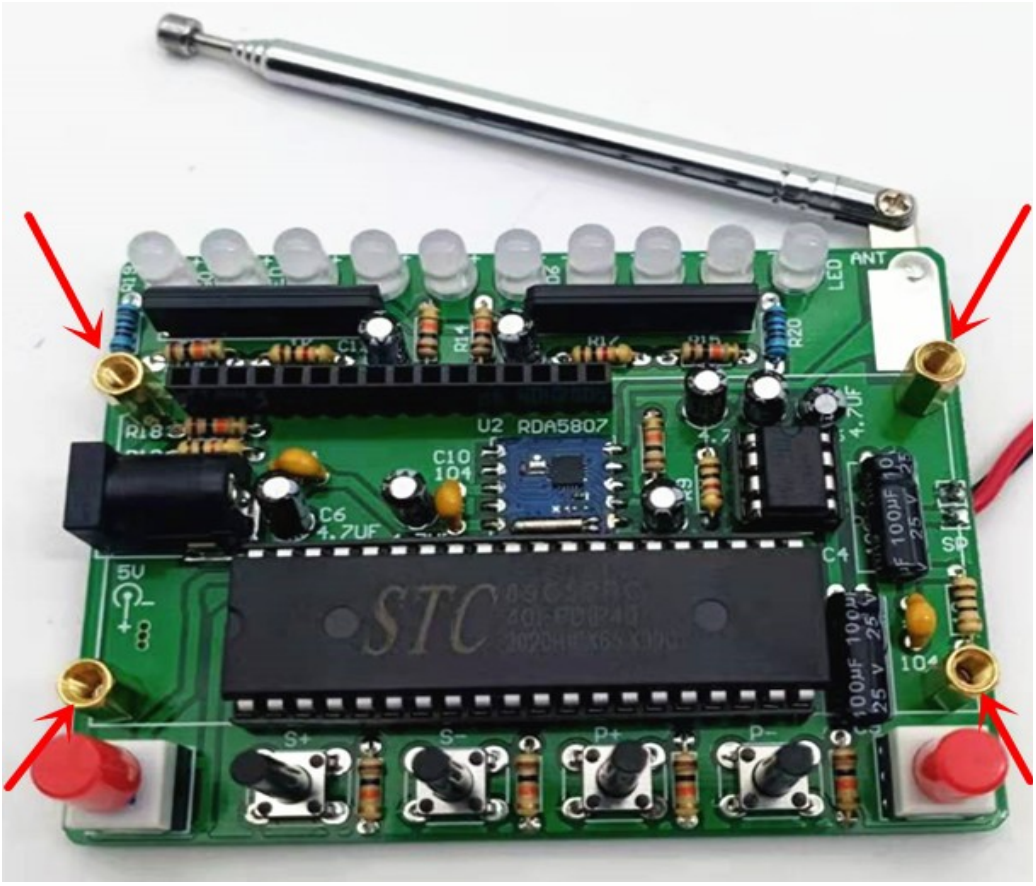
14.Welding 1602

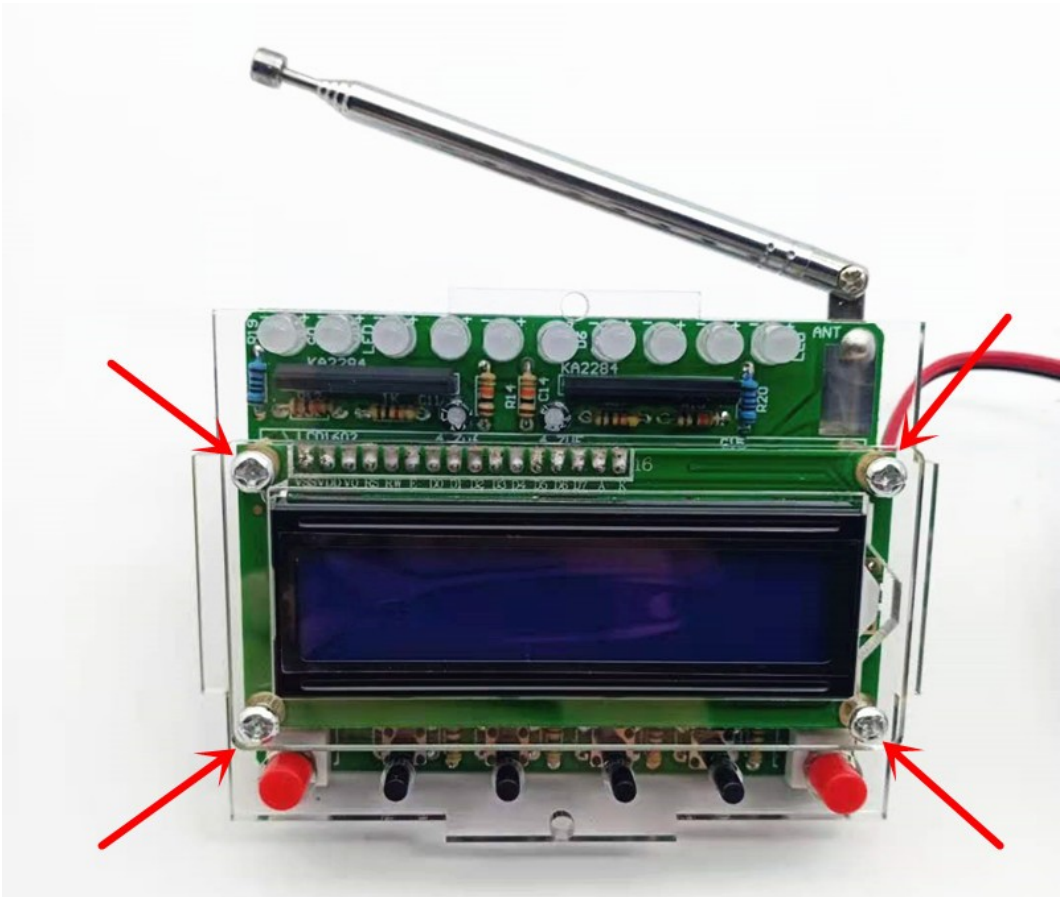
15.At this time, the welding work is completed, can be powered test

5. Assembling a transparent casing

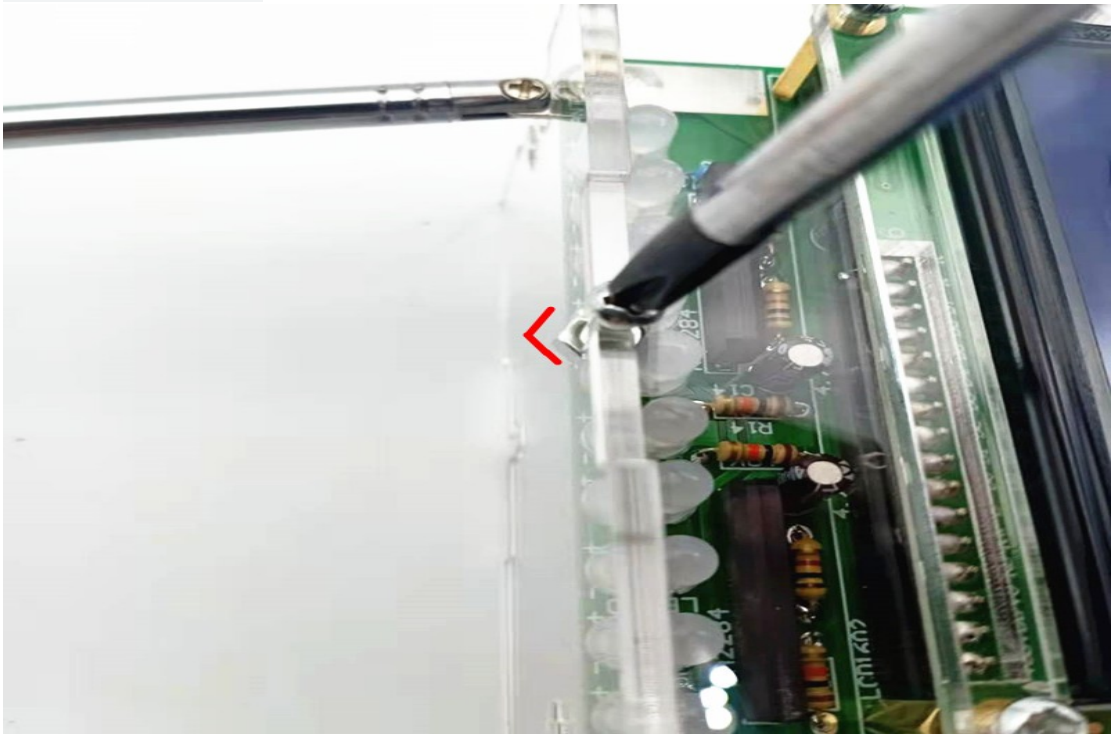
1.Fixed Speaker

2.Fixed top cover

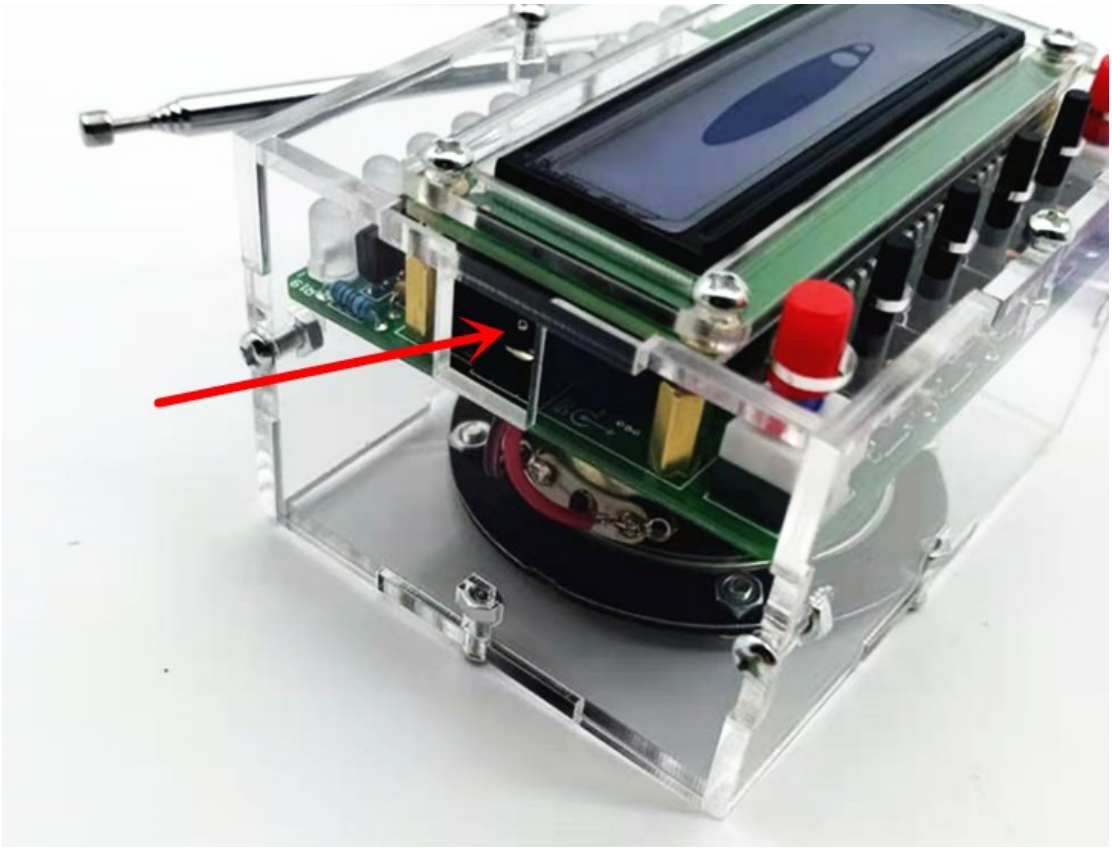


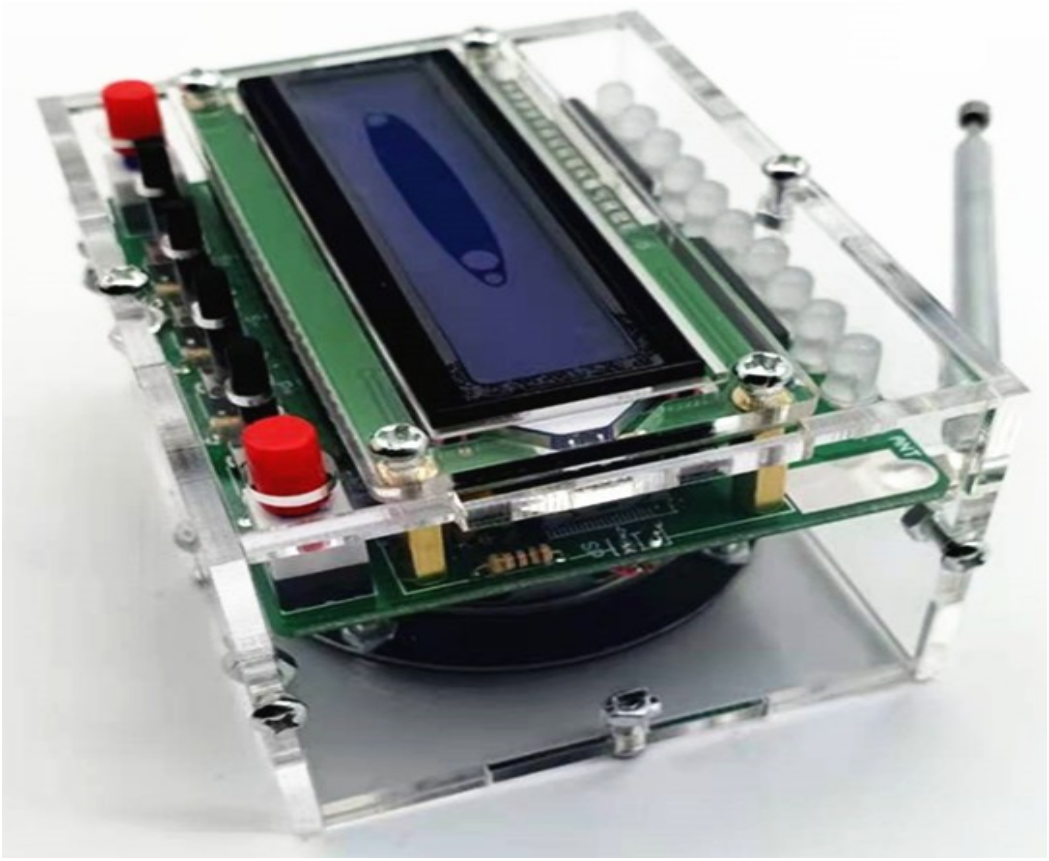


3.Fixed side cover



4.Install the upper and lower covers





I wish you success